

WEST Search History

DATE: Tuesday, November 18, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L27	fr-2427426-\$.did.	1	L27
L26	gb-490645-\$.did.	0	L26
L25	fr-2410702-\$.did.	1	L25
L24	l21 not (l22 or l23)	3	L24
L23	l22 not (l19 or l20)	5	L23
L22	L21 and bas\$2	9	L22
L21	l18 and acid\$3	12	L21
L20	l18 and indicator\$1	6	L20
L19	L18 and ph	10	L19
L18	L17 and paper\$1	111	L18
L17	L16 and secur\$3	1272	L17
L16	L15 and authentic\$5 money or check\$1 or draft\$1	3987	L16

L15	or bond\$1 or certificate\$1 or stamp\$1 or (postal order\$1) or (lottery adj ticket\$1)	561602	L15
L14	l12 not l13	5	L14
L13	L12 and (acid\$3 or bas\$5)	6	L13
L12	l6 and indicator\$1	11	L12
L11	l9 not l10	19	L11
L10	L9 and acid\$3	5	L10
L9	l7 not l8	24	L9
L8	L7 and indicator\$1	2	L8
L7	L6 and ph	26	L7
L6	security adj paper\$1	509	L6
L5	yeager-s-\$.in.	5	L5
L4	l1 and secur\$3	0	L4
L3	l1 and authentic\$5	0	L3
L2	L1 and ph	5	L2
L1	mehta-r-\$.in.	56	L1

END OF SEARCH HISTORY

WEST

End of Result Set

**Generate Collection****Print**

L24: Entry 3 of 3

File: DWPI

Apr 12, 1978

DERWENT-ACC-NO: 1978-27393A

DERWENT-WEEK: 197815

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Authenticating document e.g. cheque or ticket on security paper - by stamping with acid developer and dark ink soln. to develop of leuco:dye colour former in paper coating

INVENTOR: KEEP, G S; SINCLAIR, P ; STEINER, P R

PRIORITY-DATA: 1974GB-0032743 (July 24, 1974), 1974GB-0020826 (May 10, 1974)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
GB 1507454 A	April 12, 1978		000	

INT-CL (IPC): B32B 33/00; B41M 3/14; D21H 5/10

ABSTRACTED-PUB-NO: GB 1507454A

BASIC-ABSTRACT:

A document printed on a security paper having a coating contg. leucodye colour former, inert filler and binder, is authenticated by stamping with a compsn., comprising a mixt. of a pigmented dark ink and a soln. of an acidic material which reacts with the leucodye colour former to develop the colour.

For cheques, tickets, etc. The authentication method is quick and reduces the risk of forgery. The original coating on the paper includes security chemicals. The binder is pref. casein, used as 12-13 pts. wt. per 100 pts. wt. filler: The filler is e.g. clay of particle diameter $\leq 2 \mu m$, or finely divided $CaCO_3$. The colour former pref. has mean particle dia. of 3-4 μm . The acidic coreactant is e.g. benzene sulphonc acid, lactic acid, $NiCl_2$, a phenolic resin, etc. The solvent for the acid coreactant is pref. benzyl alcohol.

WEST**Generate Collection****Print**

L14: Entry 2 of 5

File: EPAB

Jan 28, 1981

PUB-NO: GB002052587A

DOCUMENT-IDENTIFIER: GB 2052587 A

TITLE: Security Papers

PUBN-DATE: January 28, 1981

INT-CL (IPC): D21H 5/10

EUR-CL (EPC): C09D011/00; B41M003/14, D21H021/46

ABSTRACT:

A security indicator for incorporation in a printing ink or in security paper is a water insoluble particulate visual indicator precursor that upon contact with a reducing or oxidising agent yields a water soluble visual indicator, such as a dye.

d his

(FILE 'HOME' ENTERED AT 14:16:04 ON 18 NOV 2003)

FILE 'CAPLUS, CAOLD, MEDLINE, BIOSIS' ENTERED AT 14:16:28 ON 18 NOV 2003

E MEHTA RAJENDRA/AU

L1 371 S E3-E12
L2 5 S L1 AND PH
L3 5 DUP REMOV L2 (0 DUPLICATES REMOVED)
L4 4 S L1 AND (SECUR?)
L5 0 S L1 AND AUTHENTIC?
E YEAGER STEVEN/AU
L6 2 S E4
L7 1232608 S MONEY OR CHECK? OR DRAFT? OR BOND? OR CERTIFICATE? OR STAMP?
L8 1758 S L7 AND AUTHENTIC?
L9 51 S L8 AND SECUR?
L10 1 S L9 AND PH
L11 263 S L8 AND PH
L12 26 S L11 AND PAPER?
L13 19 DUP REMOV L12 (7 DUPLICATES REMOVED)
L14 235 S SECURITY PAPER?
L15 9 S L14 AND PH
L16 9 DUP REMOV L15 (0 DUPLICATES REMOVED)
L17 11 S L14 AND INDICATOR?
L18 5 S L17 AND (ACID? OR BAS?)
L19 5 DUP REMOV L18 (0 DUPLICATES REMOVED)
L20 4 S L19 NOT L16
L21 6 S L17 NOT L18
L22 6 DUP REMOV L21 (0 DUPLICATES REMOVED)
L23 3 S L11 AND INDICATOR?
L24 165 S L11 AND ACID?
L25 56 S L24 AND BAS?
L26 3 S L25 AND PAPER?
L27 2141 S PAPER AND AUTHENTIC?
L28 351 S L27 AND PH
L29 270 S L28 AND ACID?
L30 85 S L28 AND COLOR?
L31 4 S L30 AND INDICATOR?
L32 75 S L30 AND ACID?
L33 31 S L32 AND BAS?
L34 1 S L33 AND L7
L35 30 S L33 NOT L34
L36 27 DUP REMOV L35 (3 DUPLICATES REMOVED)

=>

L22 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1982:152853 CAPLUS
 DN 96:152853
 TI **Security paper** with authentic marks
 IN Kaule, Wittich; Schwenk, Gerhard; Stenzel, Gerhard
 PA Gesellschaft fuer Automation und Organisation m.b.H., Fed. Rep. Ger.
 SO Ger. Offen., 17 pp.
 CODEN: GWXXBX

DT Patent
 LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3116257	A1	19820107	DE 1981-3116257	19810423
	DE 3116257	C2	19890713		
	WO 8103511	A1	19811210	WO 1981-DE82	19810529
	W: AT, CH, GB, JP, SE, US				
	RW: FR, LU, NL				
	JP 57500698	T2	19820422	JP 1981-501678	19810529
	JP 02055560	B4	19901127		
	EP 53125	A1	19820609	EP 1981-901314	19810529
	EP 53125	B1	19840328		
	R: FR, LU, NL				
	GB 2089384	A	19820623	GB 1982-2186	19810529
	GB 2089384	B2	19840830		
	AT 8109005	A	19841215	AT 1981-9005	19810529
	AT 378384	B	19850725		
	CH 655890	A	19860530	CH 1982-60	19810529
	SE 8107671	A	19811221	SE 1981-7671	19811221
	SE 450780	B	19870727		
	SE 450780	C	19871105		
PRAI	DE 1980-3020653		19800530		
	WO 1981-DE82		19810529		

AB To test bank notes, documents, or the like for genuineness they are printed with an ink contg. pigments, whose magnetic and IR-absorbing properties. are detd., or fibers in the paper pulp may be coated with such pigments. Their IR absorption drops sharply at the short wavelengths boundary of the visible range to approach that of the paper support. Preferably ferrimagnetic garnet compds. $M_3Fe_5O_{12}$, (M = rare earth metal or Bi) are utilized. Doping them with another rare earth metal results in a fluorescent emission, which also can serve as valuable **indicator**. Transmission in the visible area can be improved by replacing part of the Fe by other elements such as Ca, Mg, Ba, or Al, or by compds. $M_3-xM'xFe_5-xM''xO_{12}$ (M' = Ca, Mg, Zn, Cd; M'' = Si, Ge, Sn, Te; x = 0-3). Also suitable are $FeBO_3$ and FeF_3 , as well as $Li_0.5Fe_2.5O_4$ and $MgFe_2O_4$. Thus, $Gd_3Fe_5O_{12}$ was obtained by sintering Gd_2O_3 108.75, Fe_2O_3 79.8, and Na_2SO_4 70 g in a corundum crucible for 10 h at 1000.degree., grinding, and heating 10 more h at 1100.degree.. Regrinding and washing out the Na_2SO_4 flux left a green 1.mu. powder of adequate IR transparency. Fluorescence emission at 1.5 .mu. was obtained by doping, using in the above mixt. Gd_2O_3 101.58 and Er_2O_3 7.65 g (instead of Gd_2O_3 108.75 g).

L22 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1980:409847 CAPLUS
 DN 93:9847
 TI Printed **security paper** with genuineness
indicators
 IN Stenzel, Gerhard; Kaule, Wittich
 PA Gesellschaft fuer Automation und Organisation m.b.H., Fed. Rep. Ger.
 SO Ger. Offen., 7 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2845401	B1	19800214	DE 1978-2845401	19781018
	DE 2845401	C2	19801002		
	FR 2439094	A1	19800516	FR 1979-24977	19791008
	FR 2439094	B1	19831230		
	CH 649788	A	19850614	CH 1979-9283	19791016
	JP 55099000	A2	19800728	JP 1979-133059	19791017
PRAI	DE 1978-2845401		19781018		

AB The title paper is prepd. by applying the **indicators** as
 binder-free coatings, preferably fluorescent, in vacuo, e.g. in stripes.

L20 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1981:463907 CAPLUS

DN 95:63907

TI **Security papers** with visual **indicator**

IN Barnard, John David; Shaw, Gilliam Lindsay; Shepherd, Thomas Maurice

PA Tullis Russell and Co. Ltd., UK

SO Brit. UK Pat. Appl., 5 pp.

CODEN: BAXXDU

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	GB 2052587	A	19810128	GB 1980-17971	19800602
	GB 2052587	B2	19830407		
PRAI	GB 1979-19287		19790602		

AB Visual indication of attempts at fraudulent erasure by treatment of printed documents with oxidizing or reducing agents is given when the paper is printed with a colorless compn. contg. a dye-iodine complex and, optionally, starch. Thus, to 20 g KI in 500 mL H₂O was added 4.5 g I and 5 g Phenosafranine [81-93-6] in 1 L H₂O and the ppt. was filtered off and washed with 0.1M KI. A dispersion of 1 g dye-I complex in 500 mL 10-3M KI was mixed with an equal vol. of 20% oxidized starch soln. and the mixt. was coated onto 96 g/m² sized paper to give 20 mg dye-I complex/m². When treated with **acidic** bisulfite soln., alk. sulfite soln., or **acidic** SnCl₂, a pink stain developed within 2-3 s.

L20 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1980:165571 CAPLUS
DN 92:165571
TI Paper reacting to falsification by chemical agents
PA Papeteries de Voiron et des Gorges, Fr.
SO Fr. Demande, 3 pp.
CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2427426	A1	19791228	FR 1978-19244	19780602
	FR 2427426	B1	19801107		
	FR 2432576	A2	19800229	FR 1978-23652	19780802
	FR 2432576	B2	19810130		
	DE 2843309	A1	19790419	DE 1978-2843309	19781004
	NL 7810322	A	19790418	NL 1978-10322	19781013
	NL 186590	B	19900801		
	CH 634363	A	19830131	CH 1978-10677	19781013
	JP 55022088	A2	19800216	JP 1979-30073	19790316
	BR 7904551	A	19800415	BR 1979-4551	19790717
PRAI	FR 1977-31671		19771014		
	FR 1978-19244		19780602		
	FR 1978-23652		19780802		
AB	Paper reacting to falsification by basic media contains nitrophenols.				

*Image not
available
for FR - try another*

L20 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1939:7612 CAPLUS
DN 33:7612
OREF 33:1146b-d
TI **Security paper**
IN Bausch, Theodor; Bausch, Felix; Bausch, Victor
PA Felix Schoeller & Bausch
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	GB 490645		19380818	GB	
AB	The paper contains an acid indicator , e. g., an Fe or an Fe-cyanogen salt, converted before or during its addn. to paper pulp or to paper into a colorless or but slightly colored, and only slightly dissocd., complex salt of a metal of the 6th group of the periodic table that forms an acid or a polyacid, e. g., FeWO_4 , NH_4Fe cyanotungstate or molybdate; the paper also contains a reducing-agent indicator reducible to elemental form, e. g., HgWO_4 , BaTeO_3 , BaSeO}_3 . Alternatively, a buffering agent, e. g., an alkali metal salt of H_3PO_4 or H_3BO_3 , may be used with the acid indicator and with alkali ferrocyanide.				

L20 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1985:472830 CAPLUS
DN 103:72830
TI **Security paper** protected against alteration
IN Merlo Moreno, Fernando
PA Spain
SO Span., 8 pp.
CODEN: SPXXAD

DT Patent
LA Spanish

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	ES 510703	A1	19831201	ES 1982-510703	19820323
	ES 531226	A2	19850316	ES 1984-531226	19840402
PRAI	ES 1982-510703		19820323		

AB **Security paper** is prepd. by dyeing the cellulosic fibers, as a last stage before forming the paper on a papermaking machine and after incorporation of all sizes and other additives, with a dye which is colorless under neutral conditions but colored **acid** or **basic** conditions. Such a dye, for example, turns blue when treated with **acid**, red when treated with **base**, yellow in the presence of oxidizing agents, and bluish or violet with most org. solvents.